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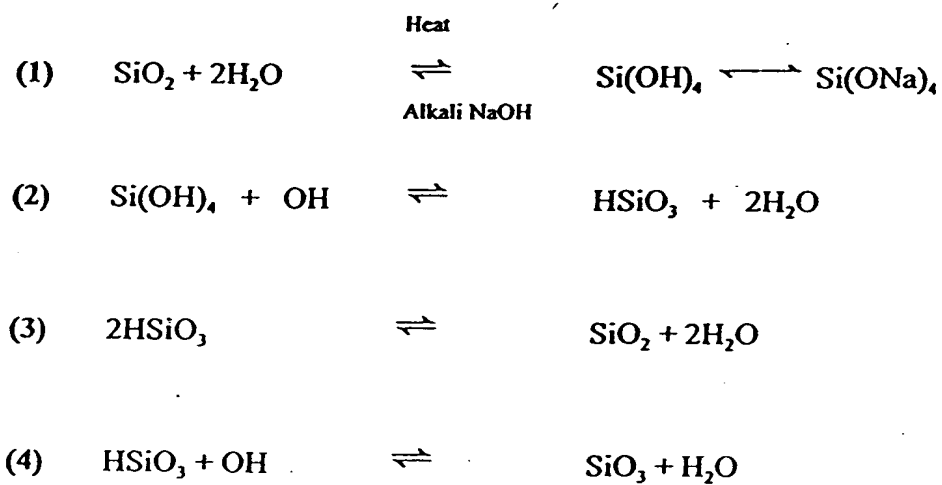


Fig. 1

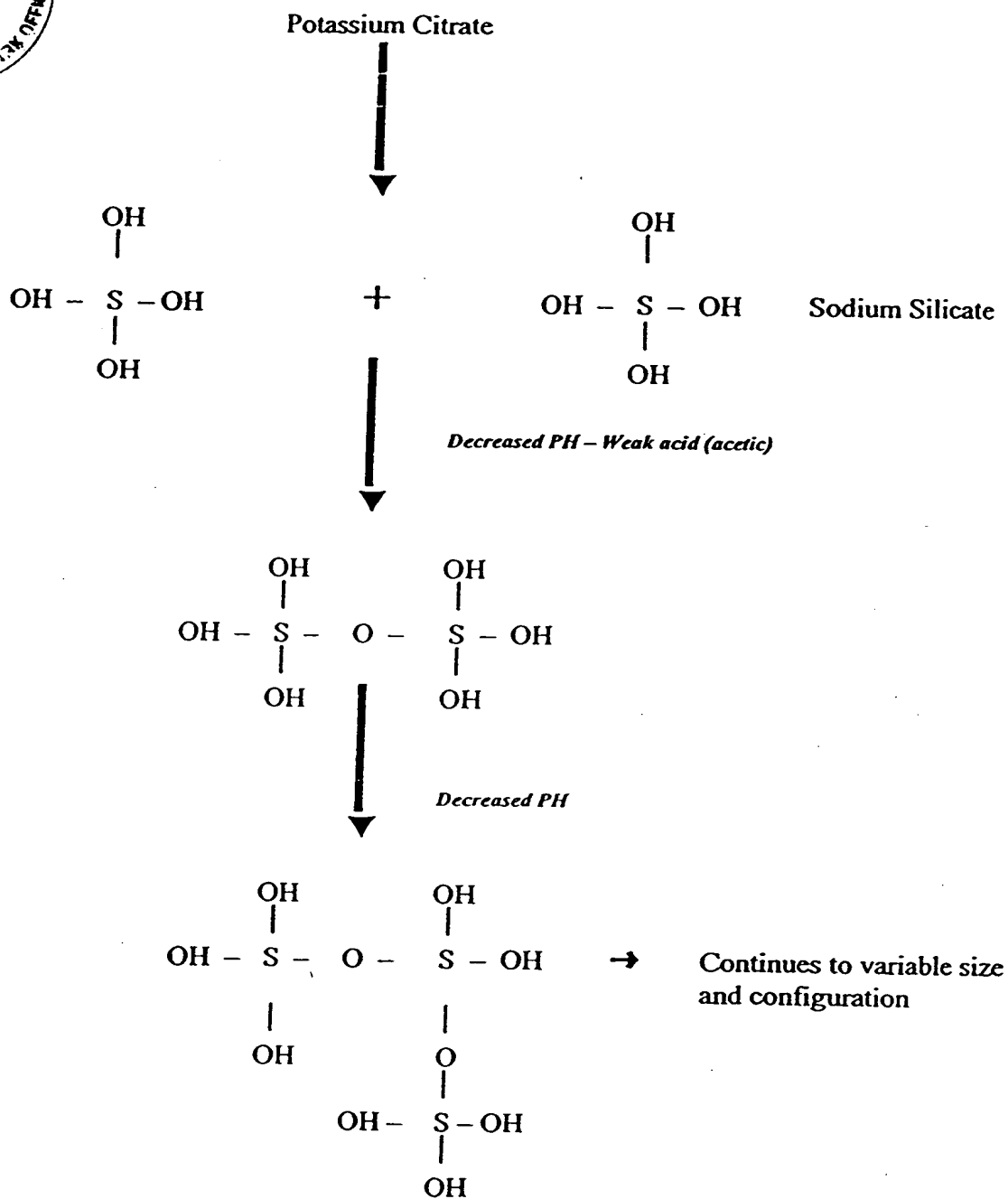
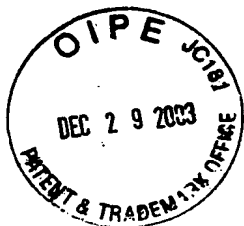


Fig. 2

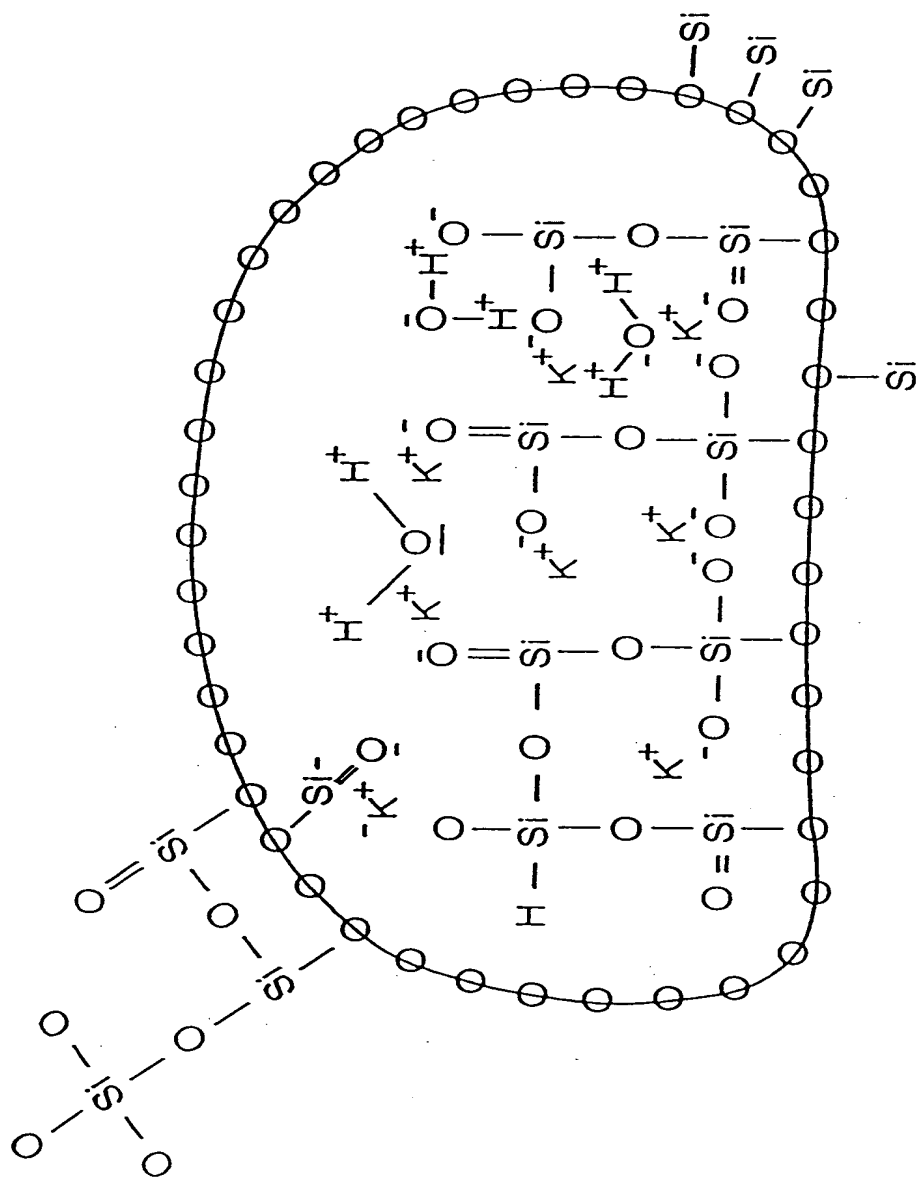


FIG. 3

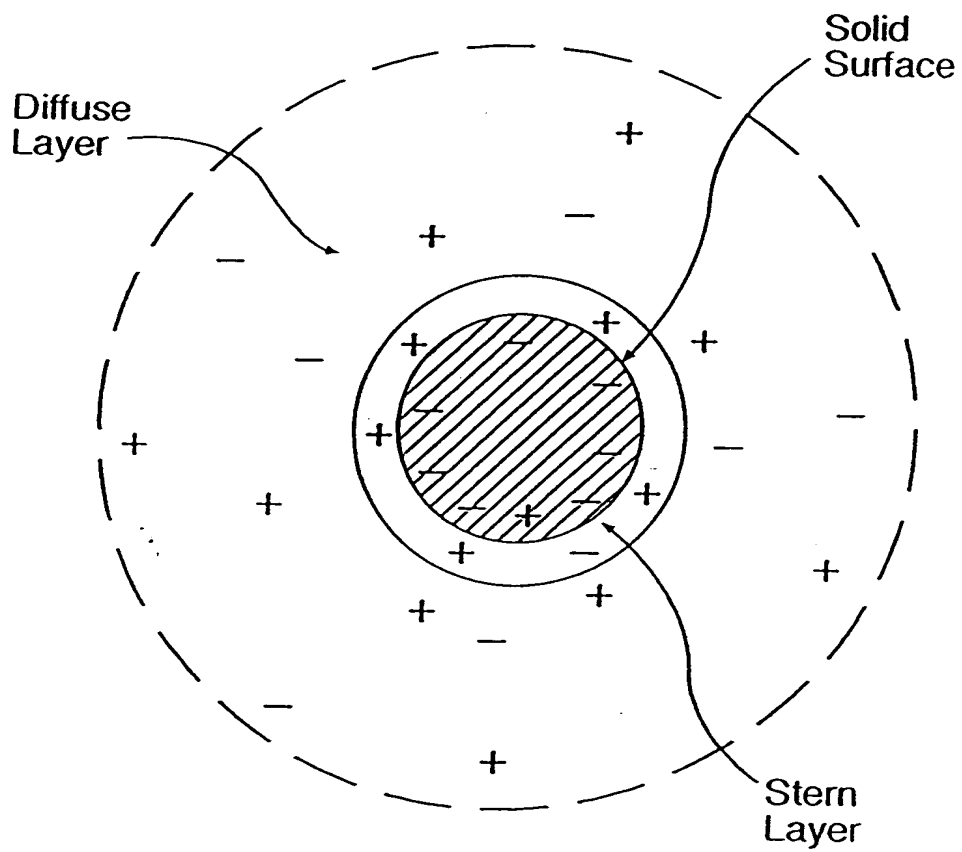


FIG. 4

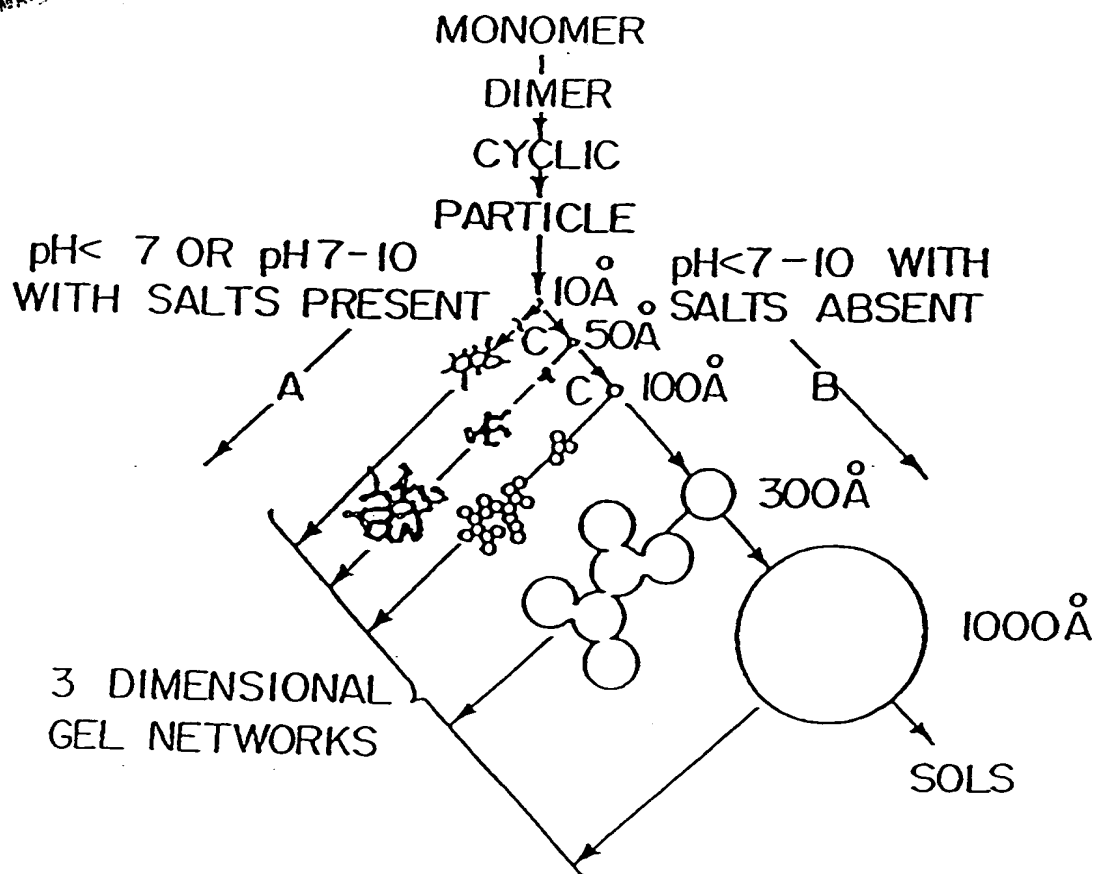
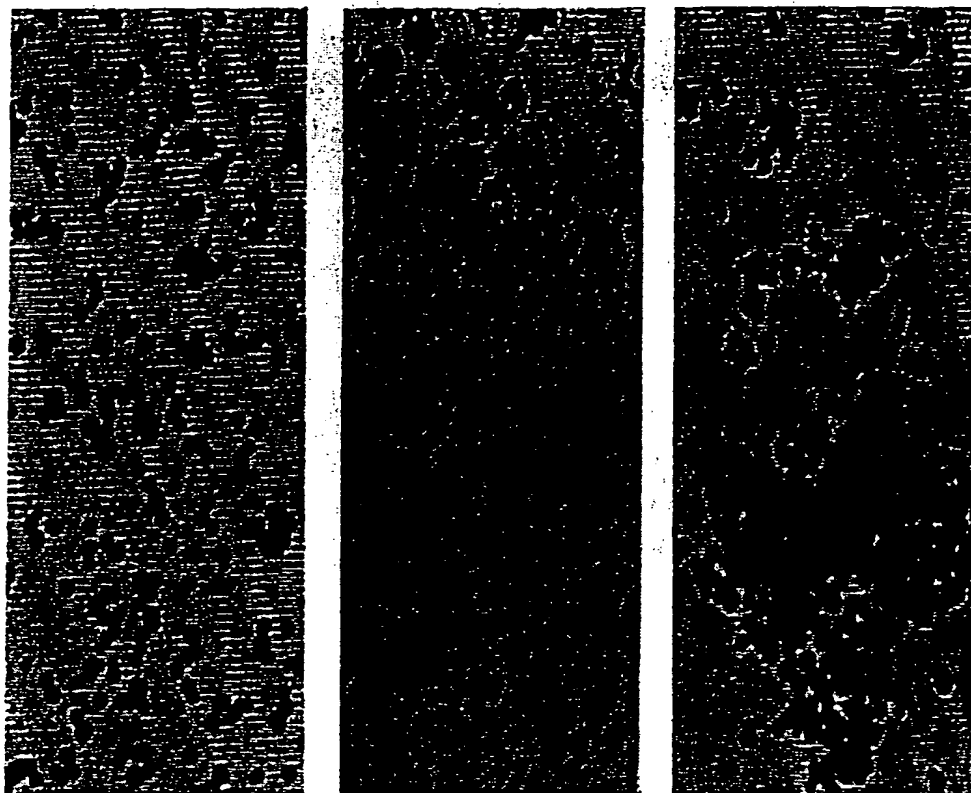


FIG. 5



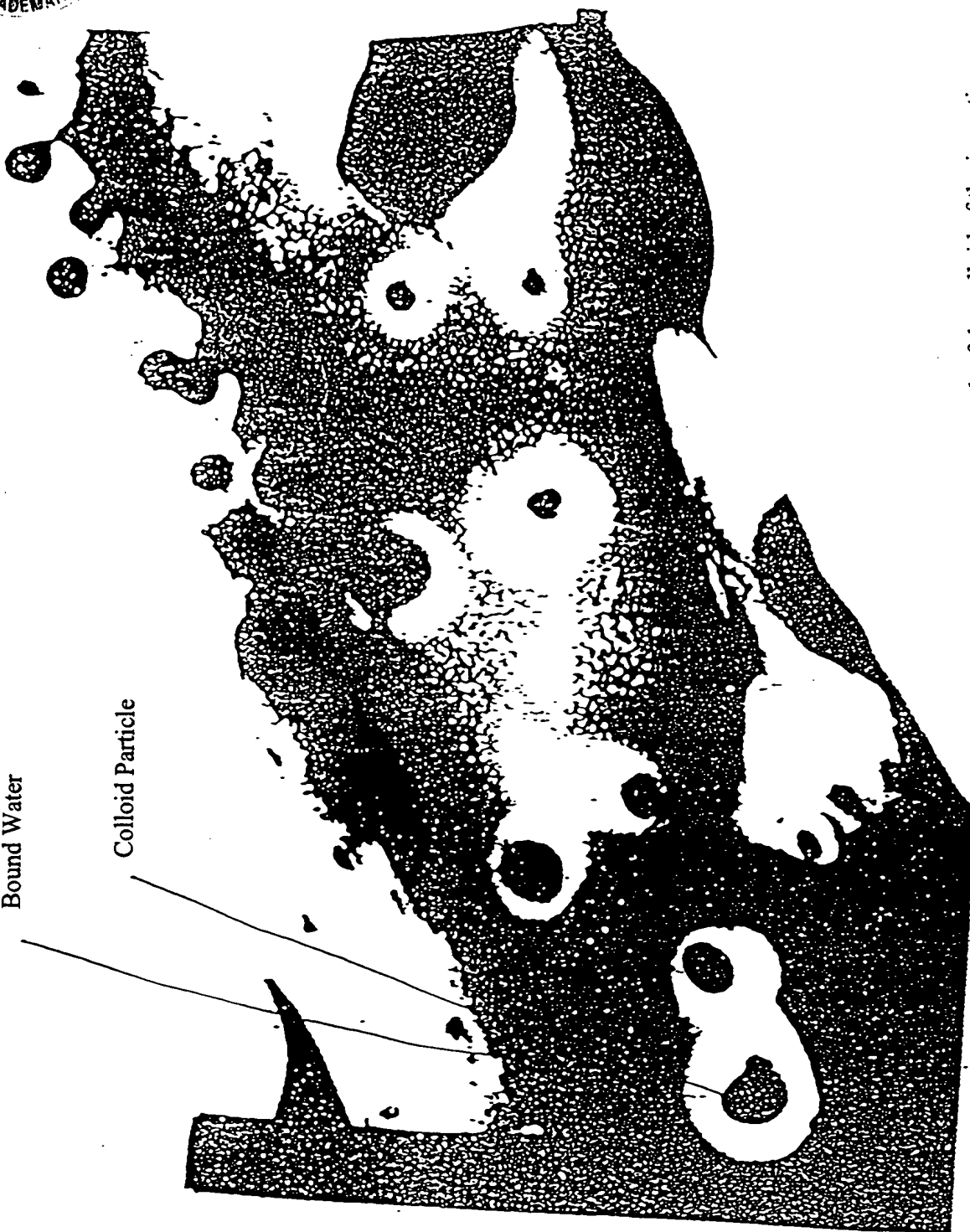
Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6

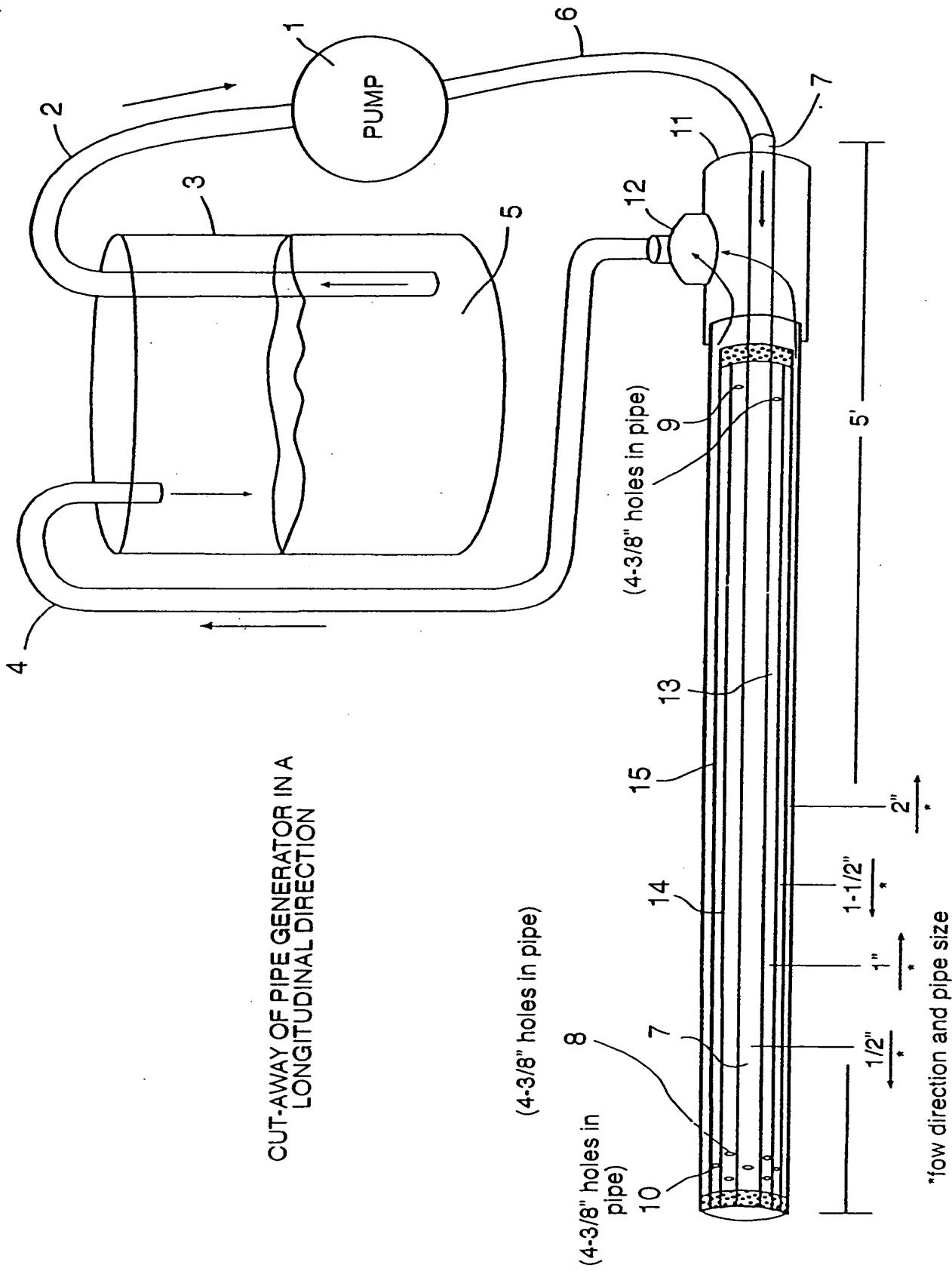


Bound Water

Colloid Particle



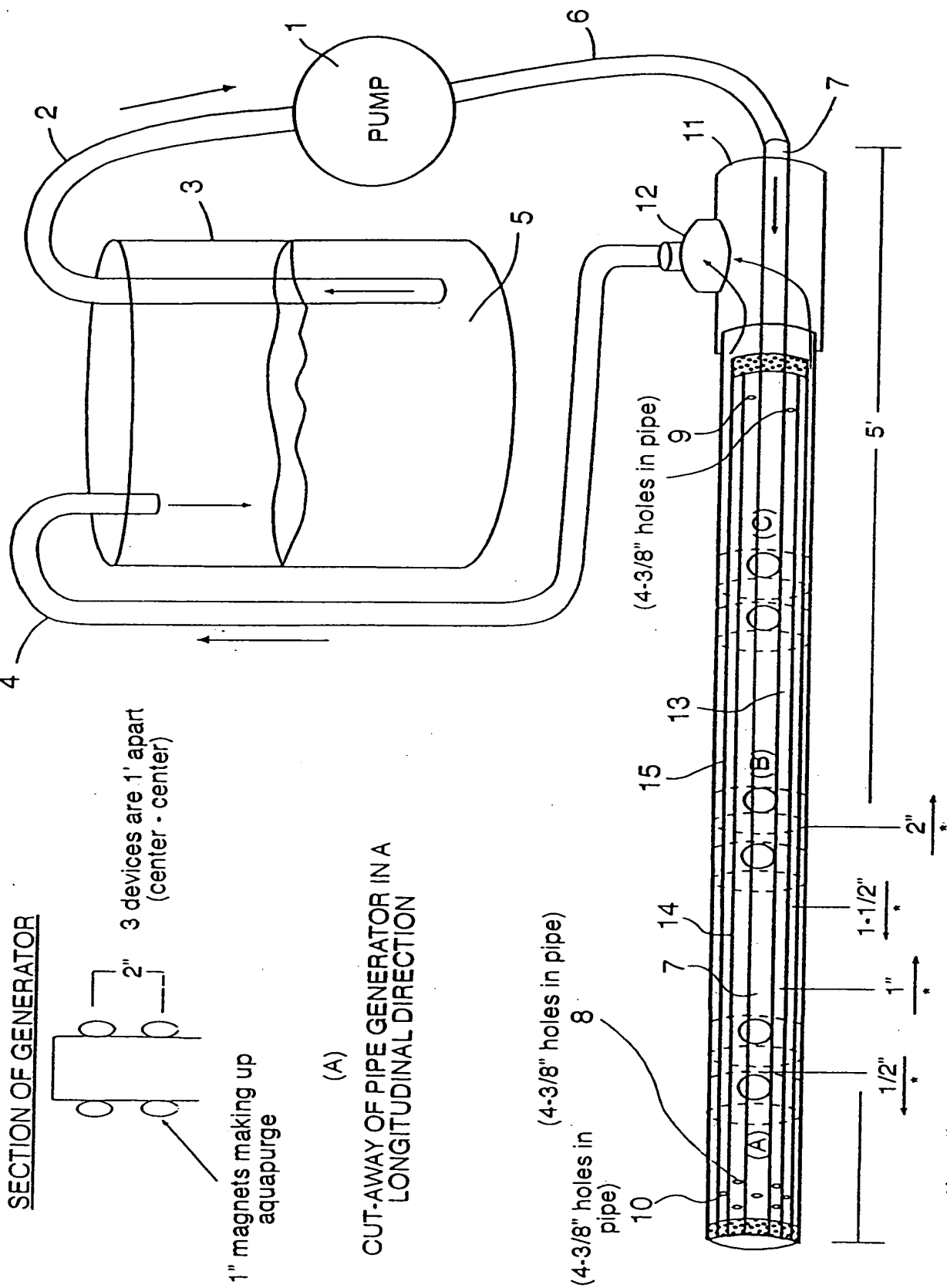
6A. Electron photomicro graph of the colloid of the invention.



CUT-AWAY OF PIPE GENERATOR IN A
 LONGITUDINAL DIRECTION

FIG. 7

*flow direction and pipe size





Cross sectional view of counter current generator of the invention with lines A-A' and B-B' noted for measurement purposes.

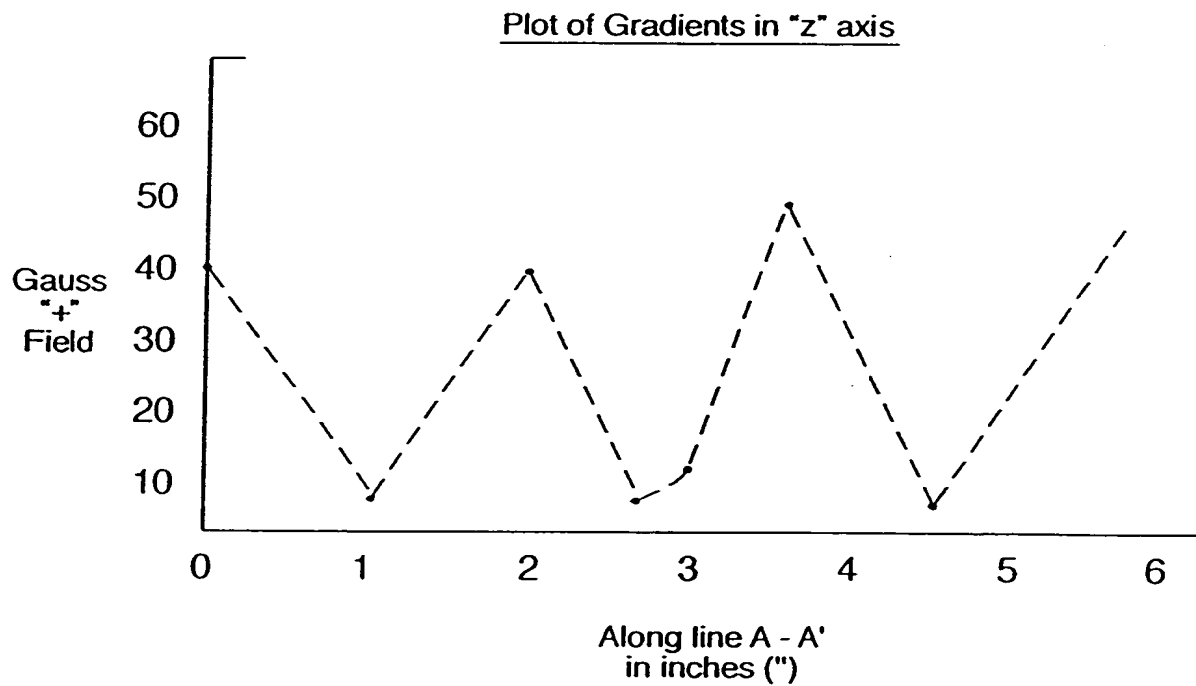
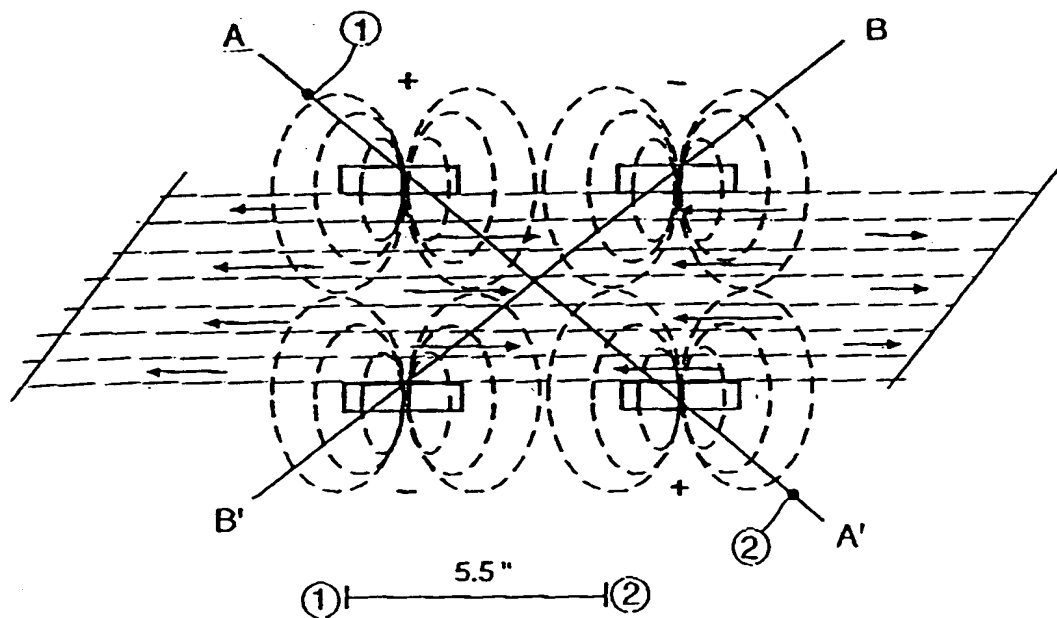


FIG. 9

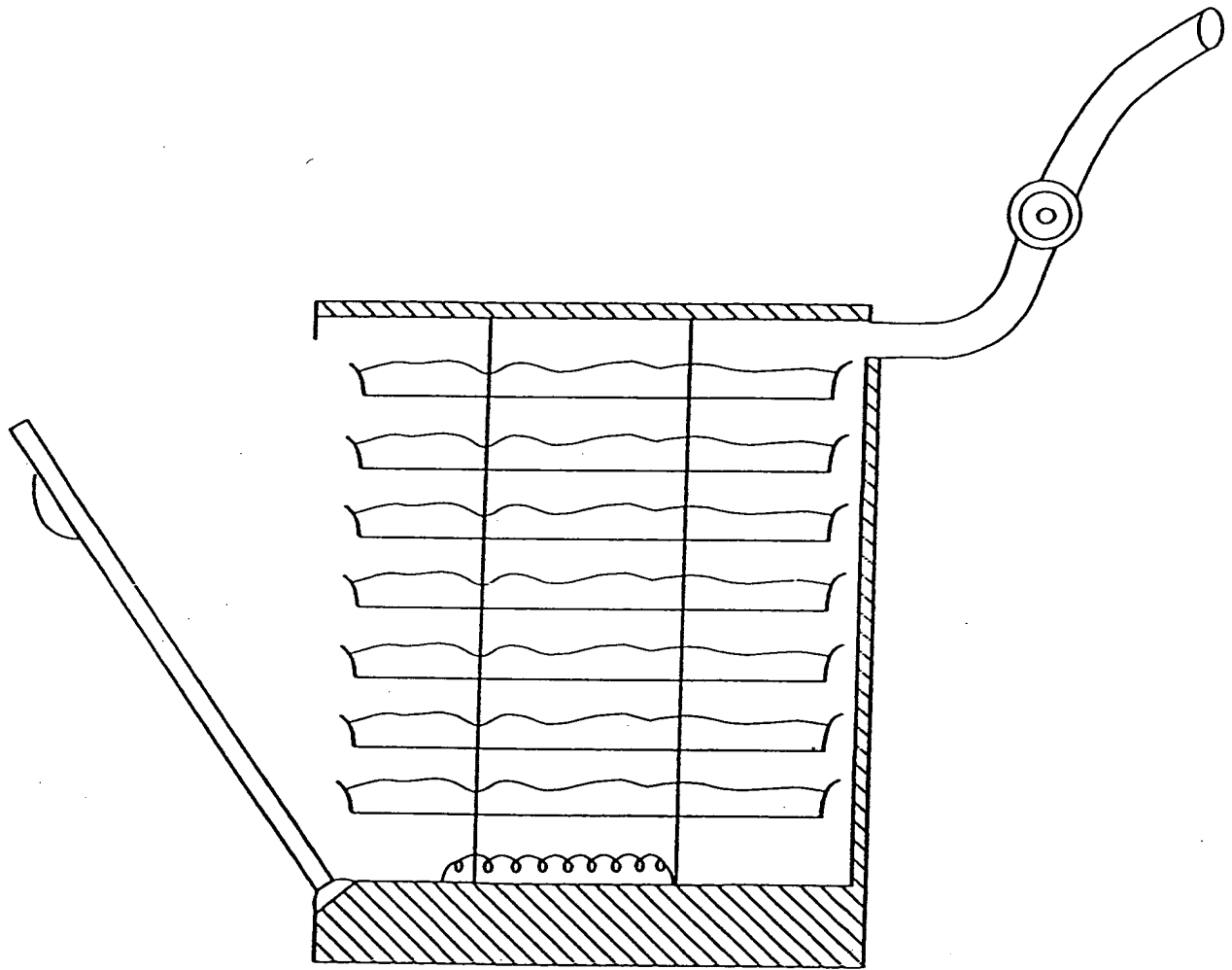


FIG. 10

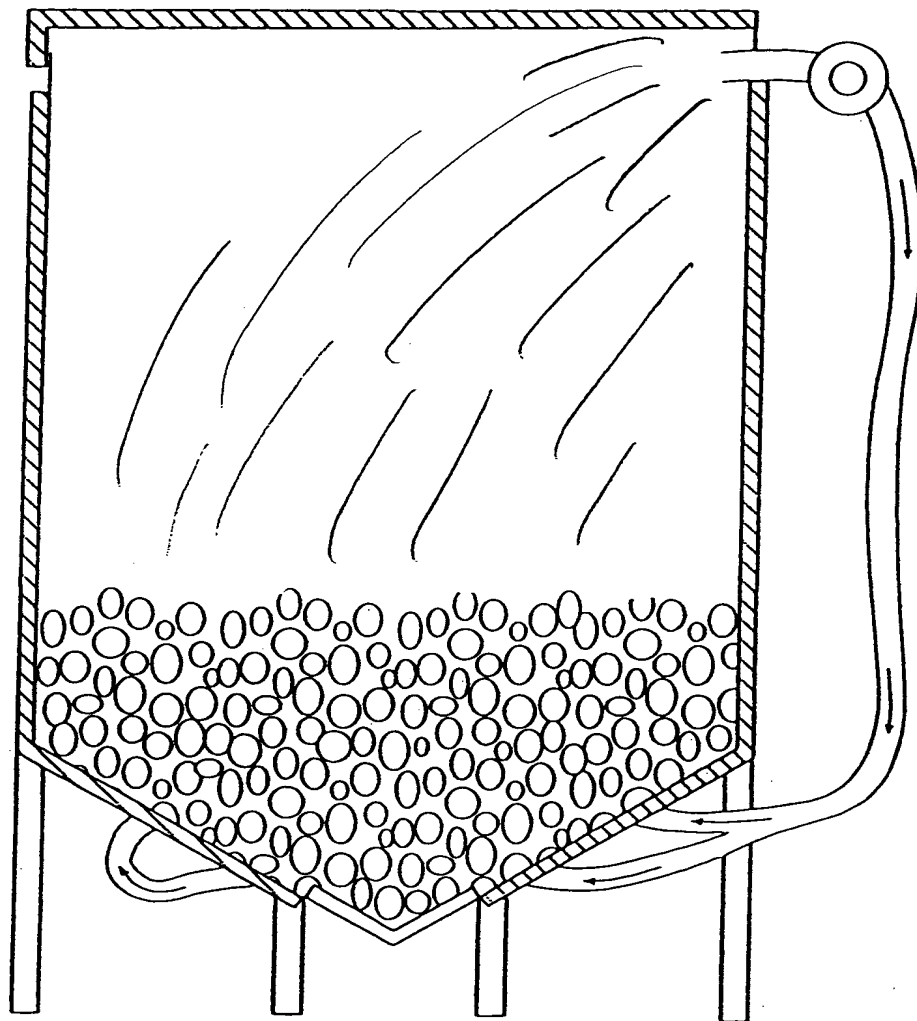


FIG. 11

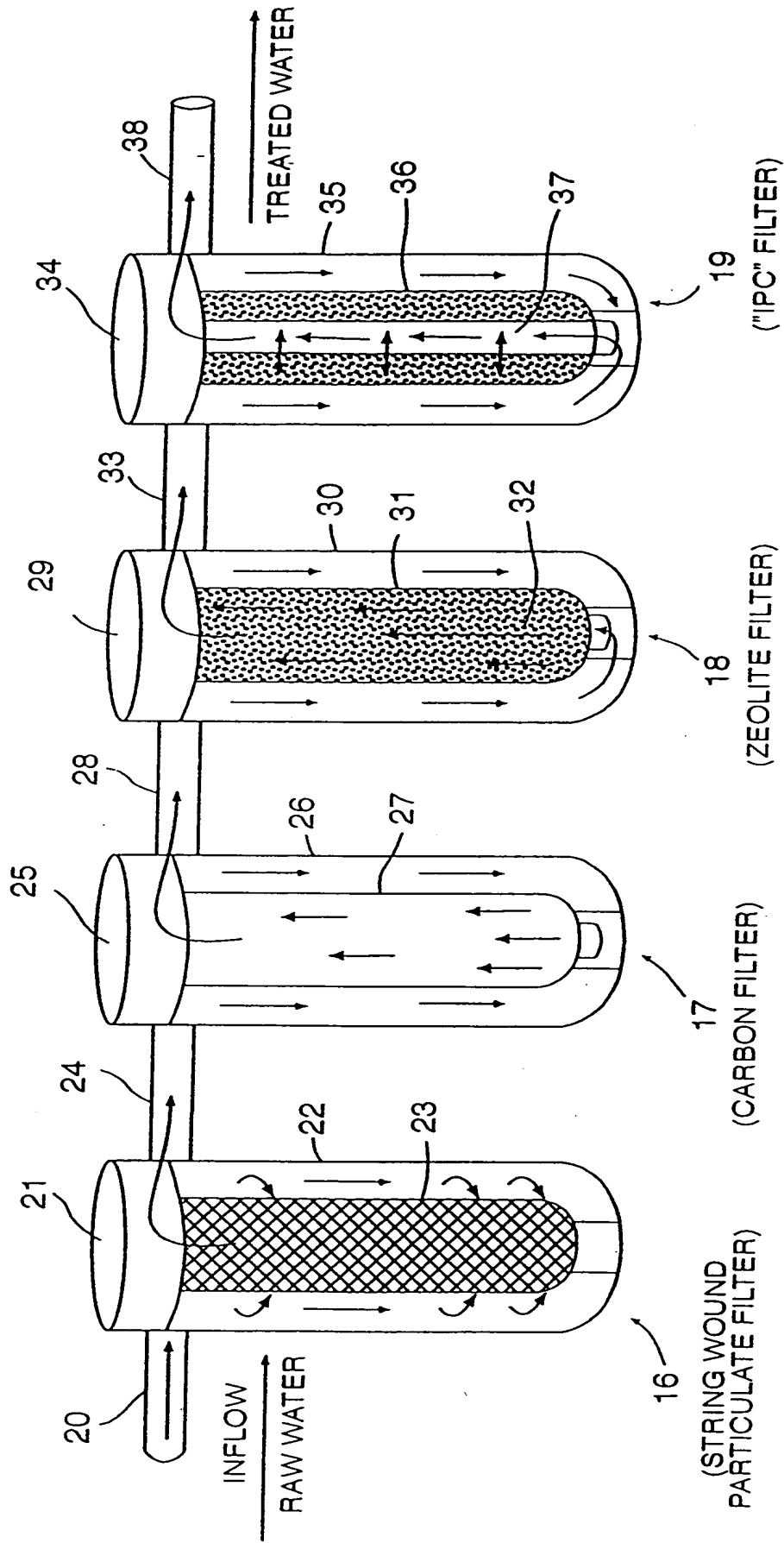


FIG. 12

HOME WATER SOFTENER, WITH AUTOMATIC CONTROLLER FOR REGENERATION AND SERVICE

IPC CONVERSION

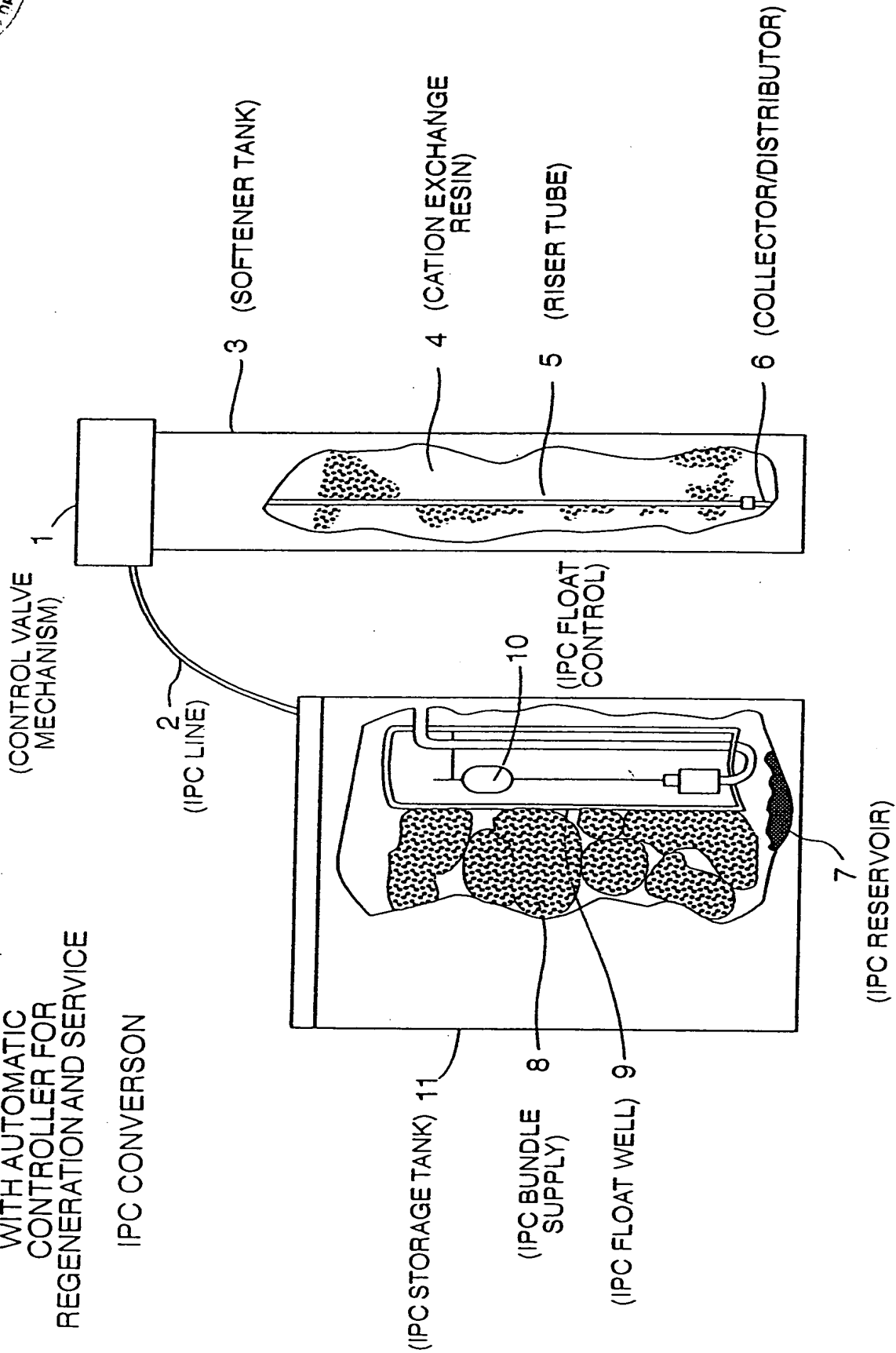


FIG. 14

CROSS SECTIONS
 (REGENERATION TANK)

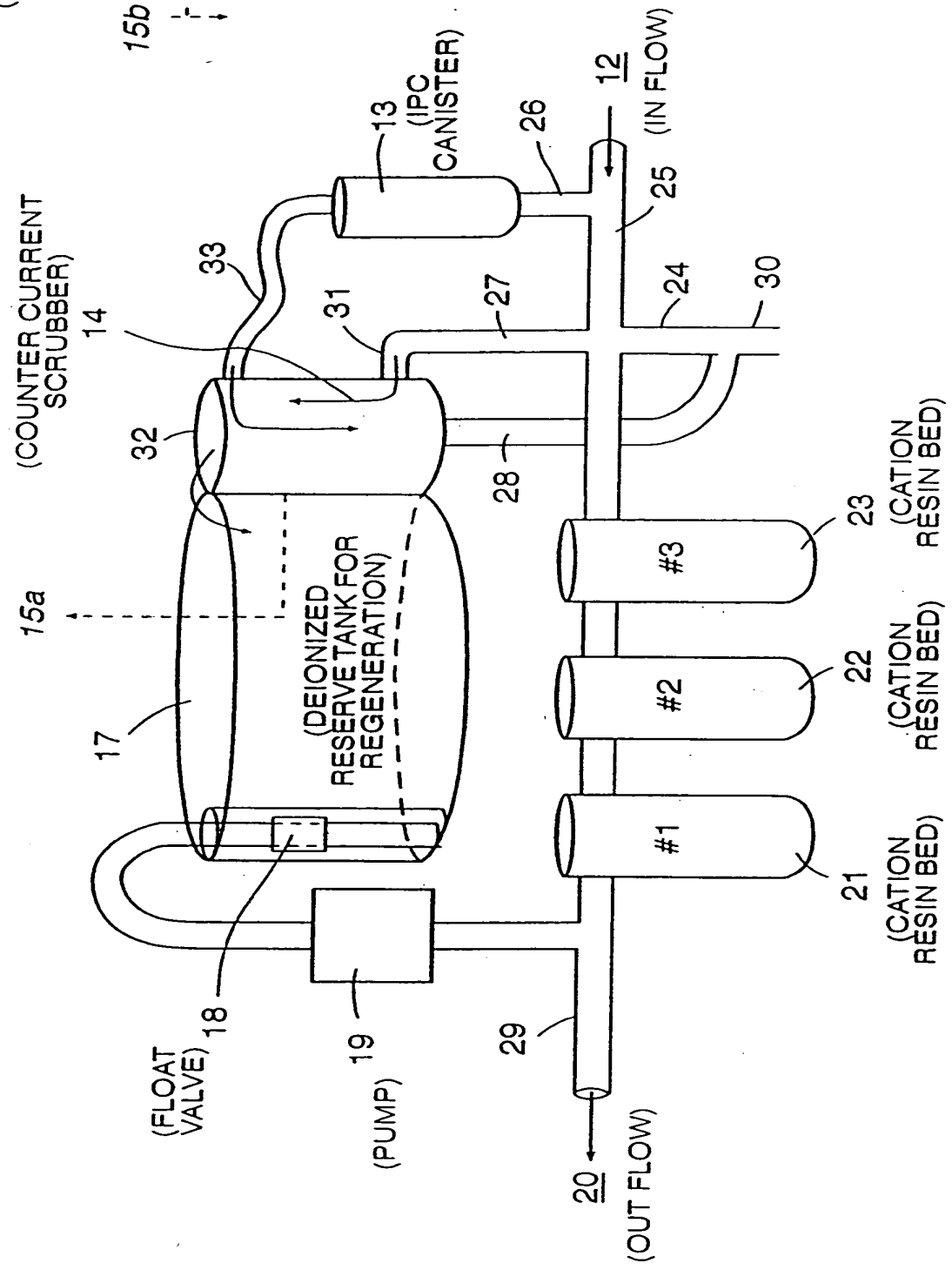
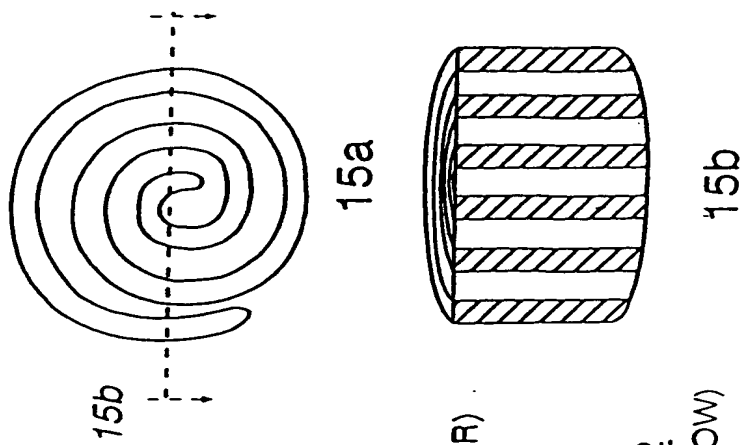


FIG. 15

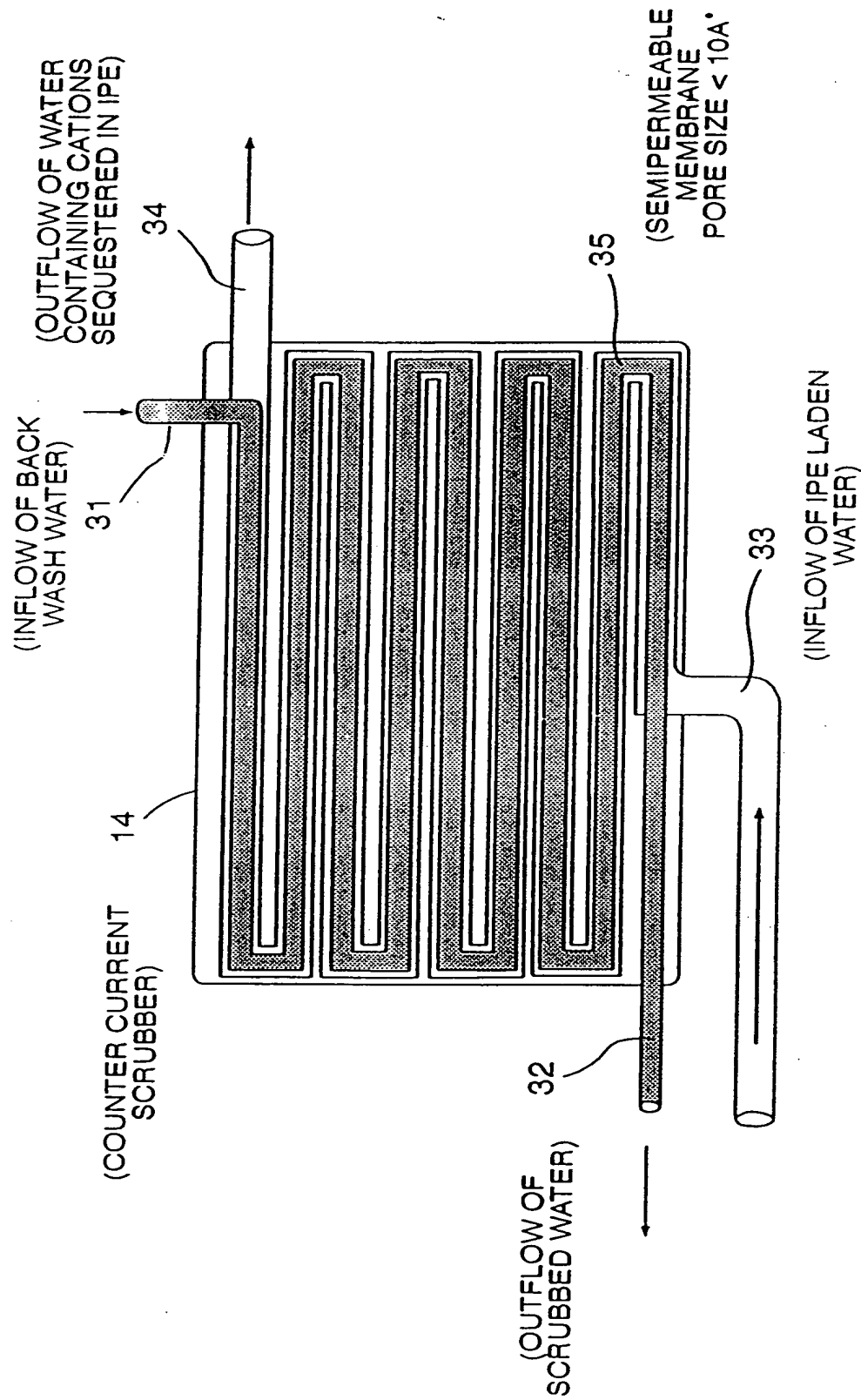


FIG. 16

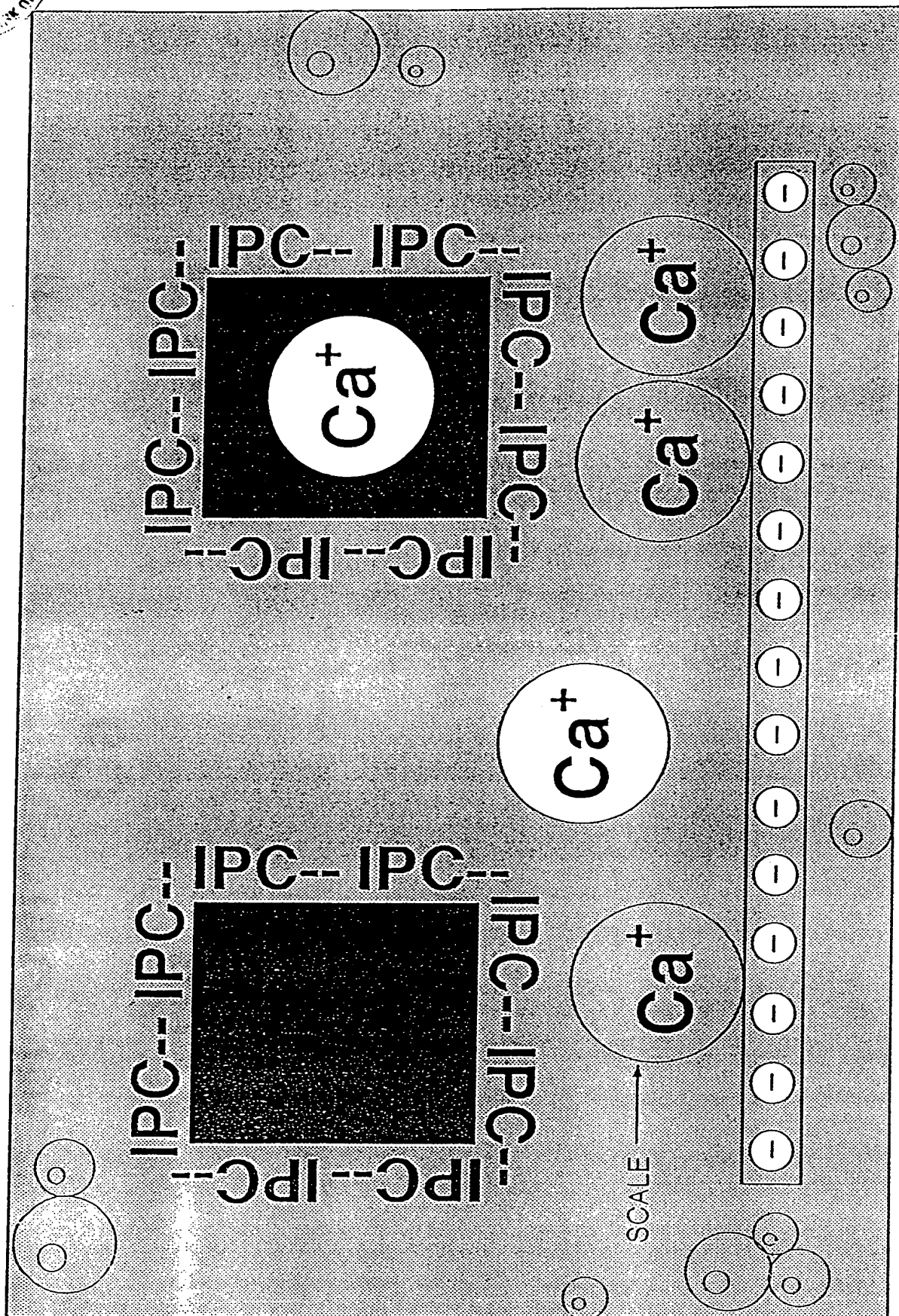


FIG. 17

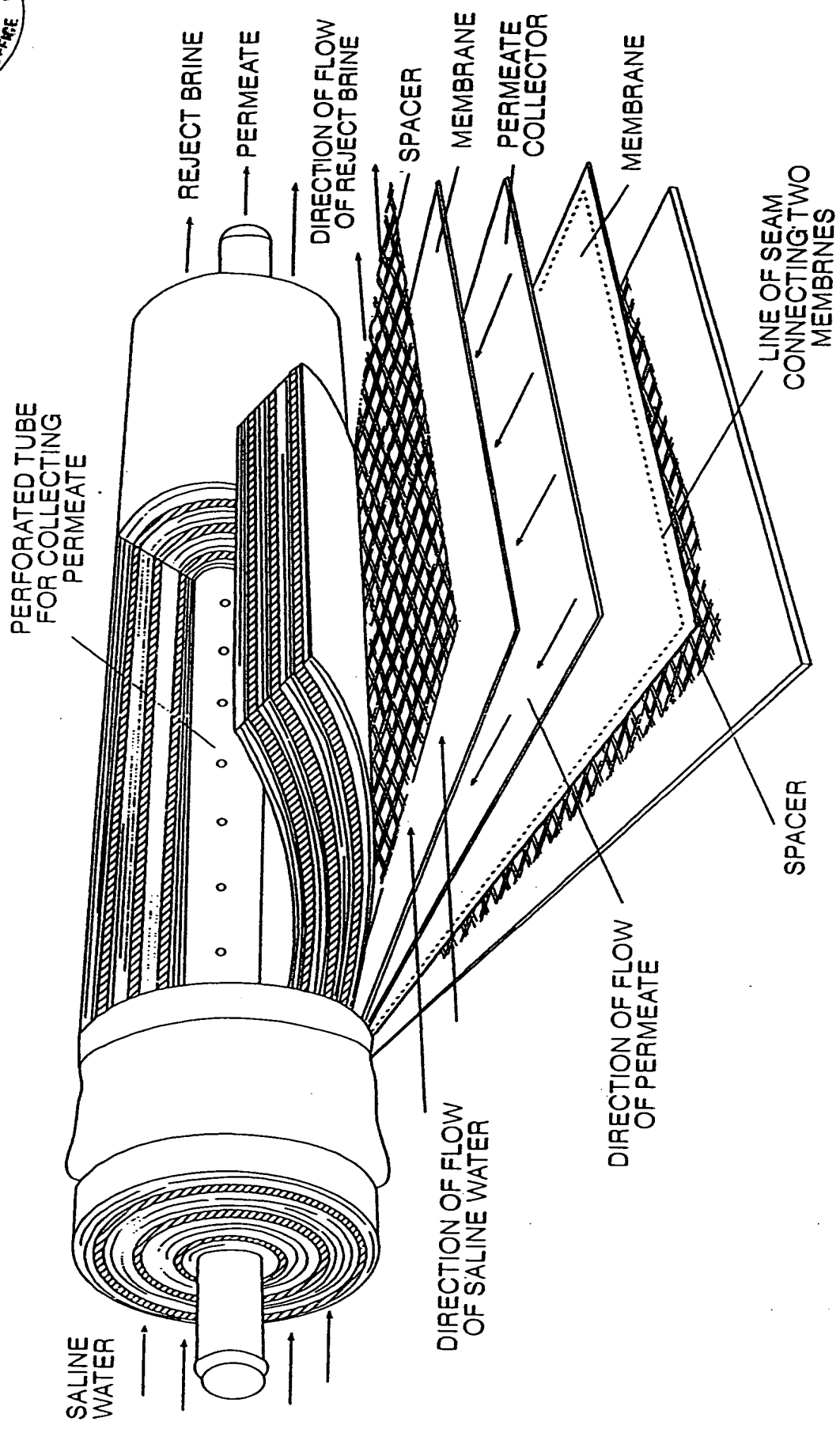


FIG. 18

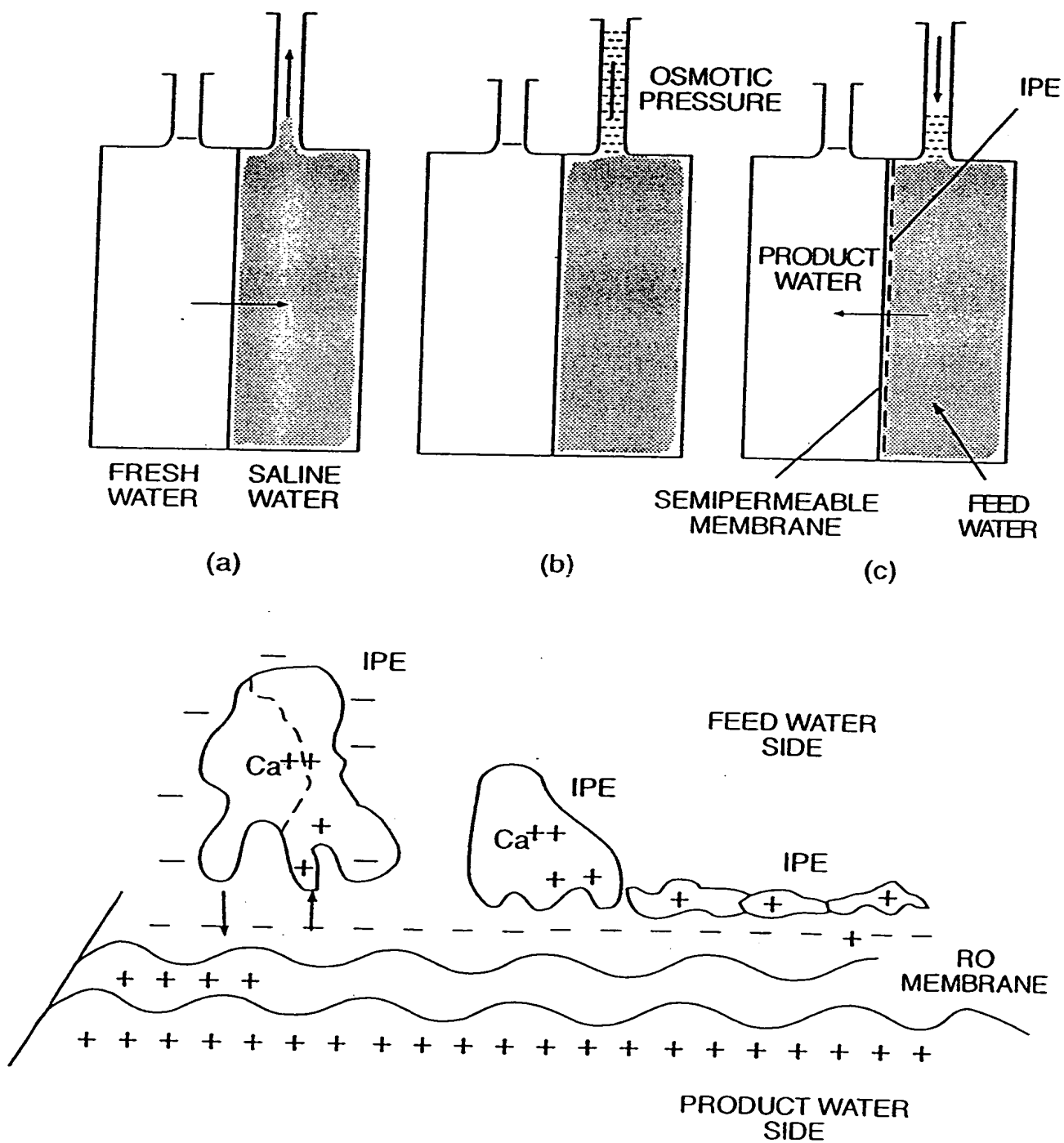


FIG. 19

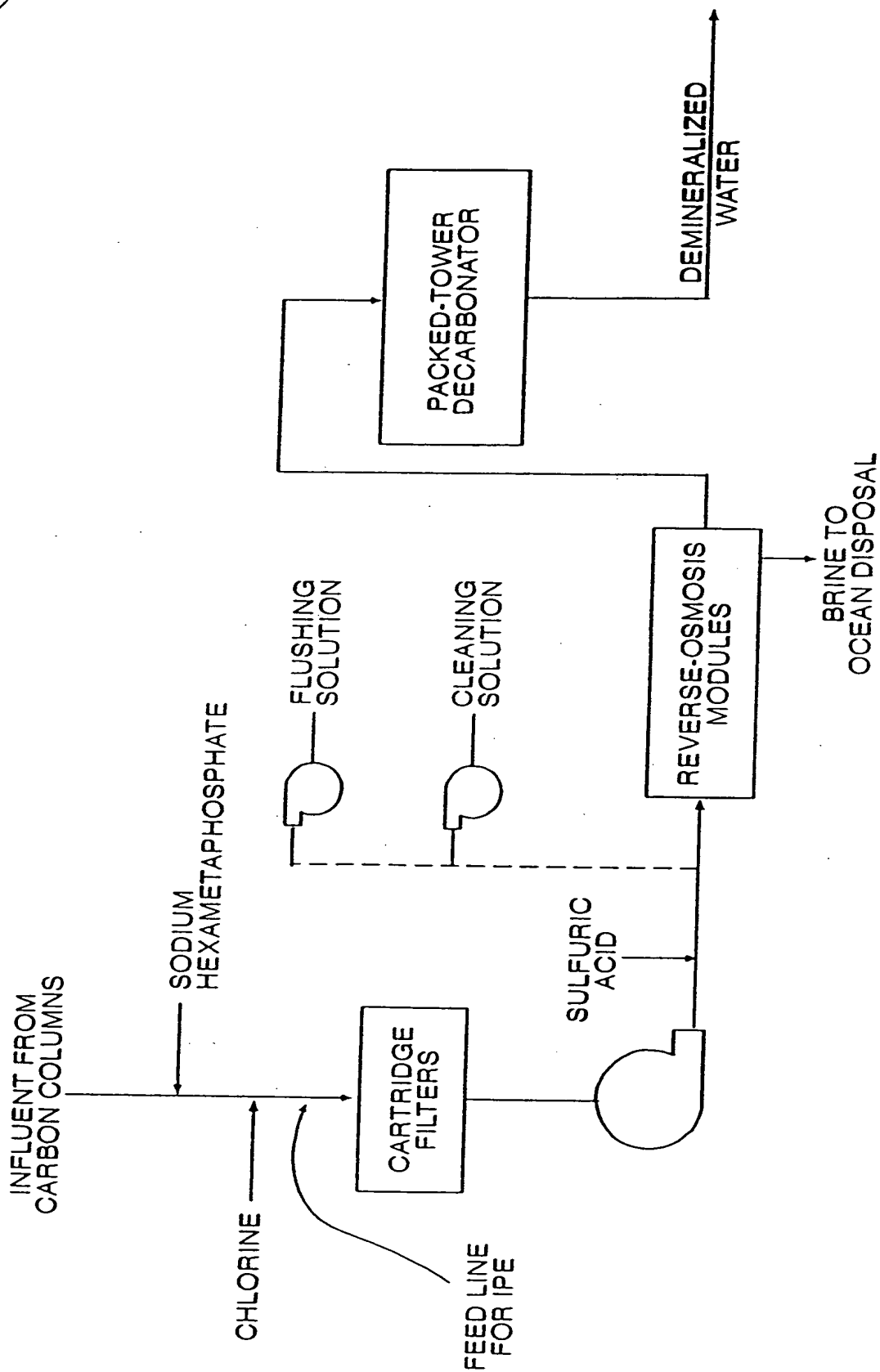


FIG. 20